

WEB SECURITY ANALYZER

Lockheed LLC & Ideo-lab

Version 1.0

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IDÉO-LAB • 2026

Web Security Analyzer

From cyber signals to security decisions



Risk → Evidence → Action

See. Understand. Act.

CURRENT ARCHITECTURE

How WSA is built today

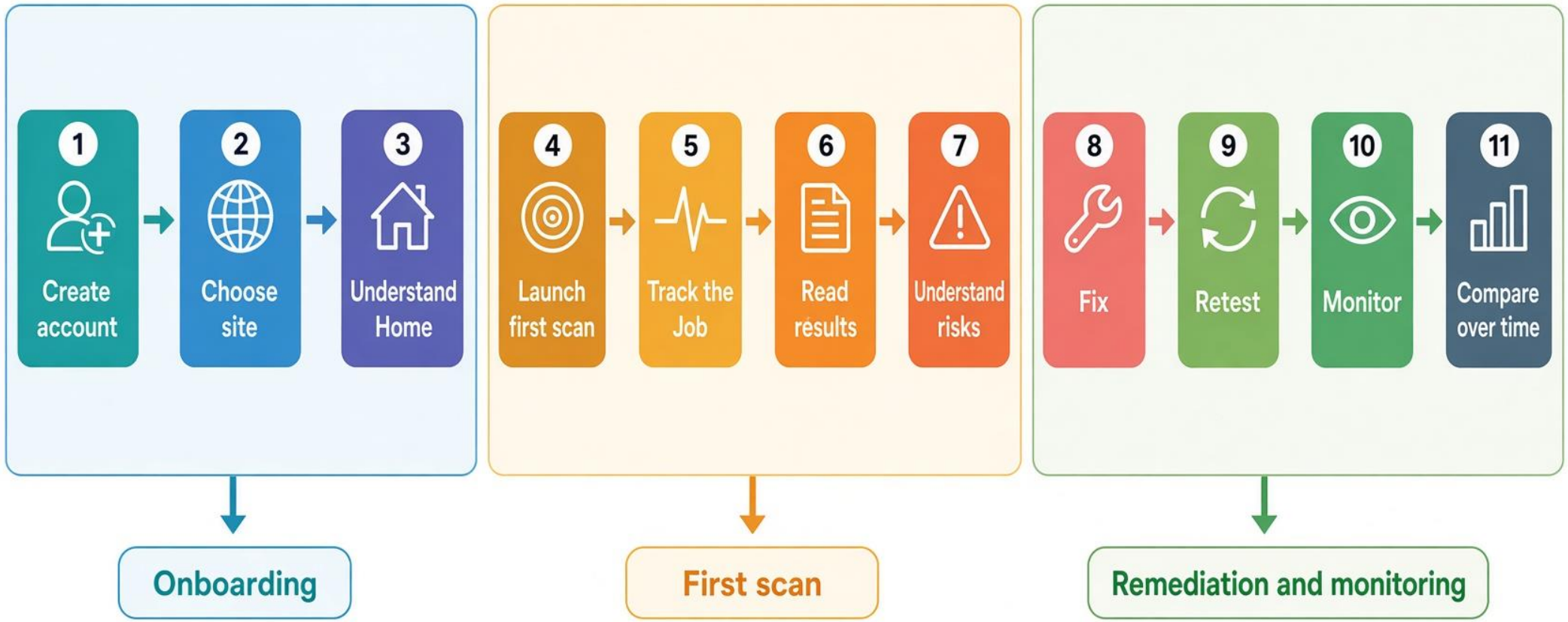
From the browser to the analyzers.



A SIMPLE STACK. A DETERMINISTIC PRODUCT.

User Journey

From account creation to ongoing monitoring




ARCHITECTURE • DESKTOP NATIVE
A Desktop Native version
The core stays local. Internet is optional.
COCKPIT
Dashboard · GPS · IP Analyzer · Network · Linux · Reputation · History
INTERFACE
Native Python GUI
ENGINE
Security Analyzer Core · DNS · TLS · HTTP · IP · OS
DATA
Local database · encrypted data
INTERNET / APIs — OPTIONNEL
Autonomous first. Connected only when needed.

TECHNOLOGY & PRODUCT

The WSA product plan

1 UNIFIED PLATFORM

Web · Domain · IP · Network · Reputation · Monitoring

2 IP ANALYZER

ASN · Géo · Traceroute · History · Contradictions

3 DECISION ENGINE

Score · Confidence · Evidence · Impact · Recos

4 DECISION-MAKER UX

GPS Wizard · Decision Wheel · Tables

5 TWO MODES

Web demo · Singleton on-premise

ONE PLATFORM. TWO DEPLOYMENTS. ONE DECISION.

The Technology, the concept and the product




MULTI-FACTOR AUTHENTICATION (MFA)
VULNERABILITY SCAN
[✓] SQL INJECTION
[✓] XSS
[✓] CSRF
<form id="login" action="/auth">
<input type="text" name="user">
<input type="password" name="pass">
<button type="submit">Login</button>
</form>
WEB SECURITY ANALYZER
SCANNING... 73%
THREAT DETECTION
> SCAN ACTIVE
> ANOMALIES: 0
> STATUS: SECURE
WSA
Web Security Analyzer
1. SOMETHING YOU KNOW
PASSWORD / SECRET KEY
WSA AUTHENTICATOR
123 456
30s
123
456
2. SOMETHING YOU HAVE
AUTHENTICATOR APP / HARDWARE TOKEN
3. SOMETHING YOU ARE
BIOMETRICS (YOU)

EVOLVE: go beyond the vulnerability scanner

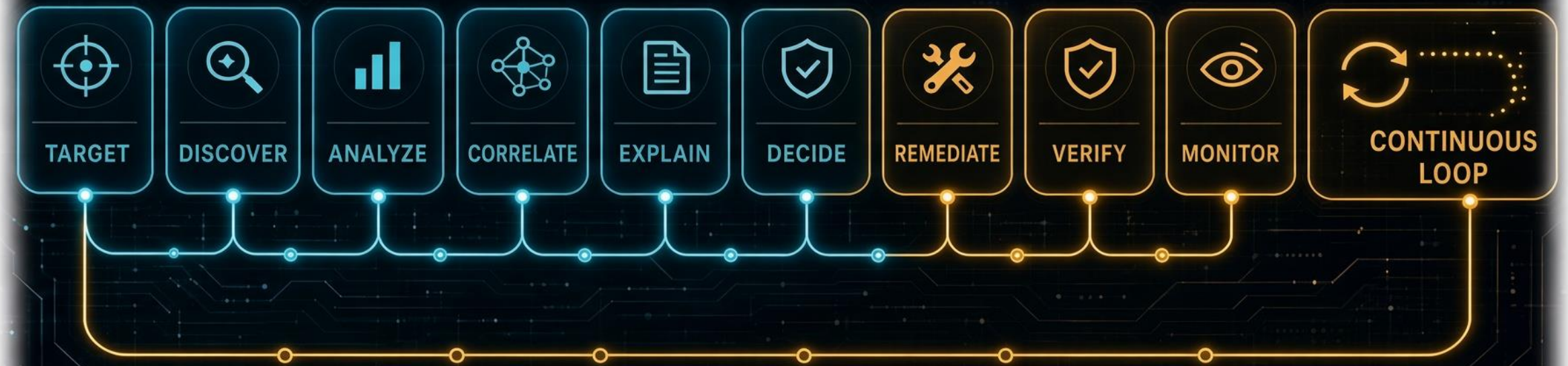
The traditional scanner mainly answers one question: “What vulnerabilities can I detect?” »



Essential. But it’s only part of the problem.

WSA builds a security cycle

The scanner produces a result. WSA doesn't stop at the report.



The fundamental difference: a result vs a cycle.


UNIFY: a single vision of security
Each domain tells a part. WSA brings them together.
DNS
TLS
WEB
NETWORK
IP
HISTORY
BGP
RÉPUTATION
UNIFIED WSA SECURITY MODEL
RISK
EVIDENCE
CONTEXT
Risk is scattered. Decision requires a single vision.

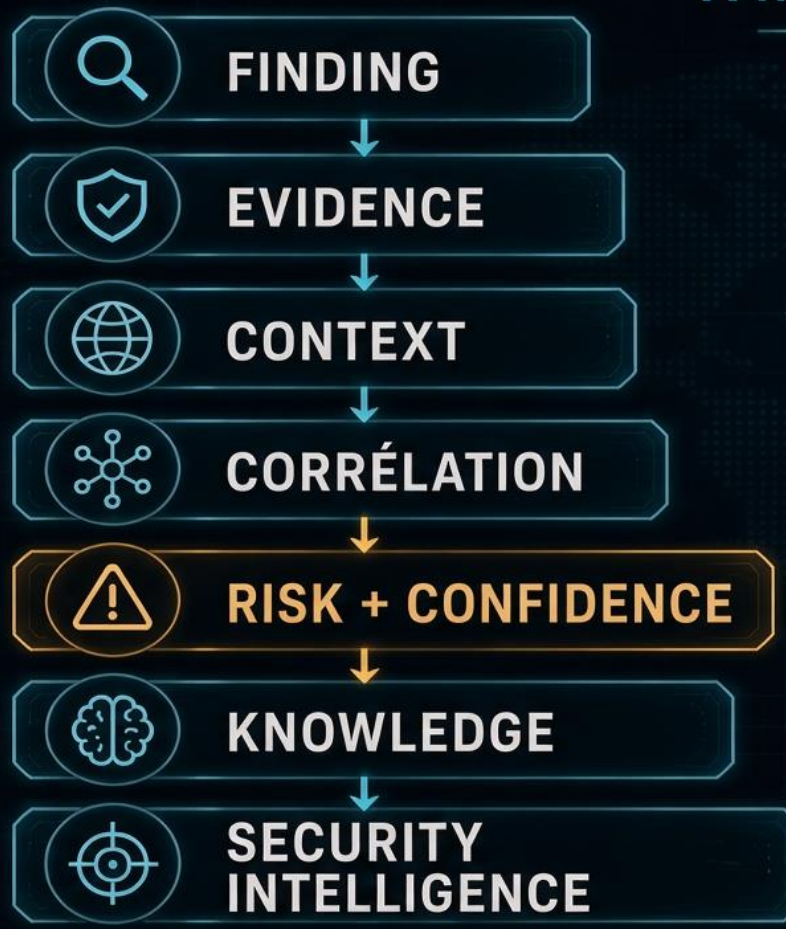
The vision extends with the internal agent



One company. One risk surface. One coherent vision.

UNDERSTAND: from finding to intelligence

A finding is not yet a decision.



- WHAT?
- WHERE?
- WHY?
- HOW SURE?
- THEN WHAT?
- DID IT WORK?

Finding → Evidence → Context → Understanding → Décision

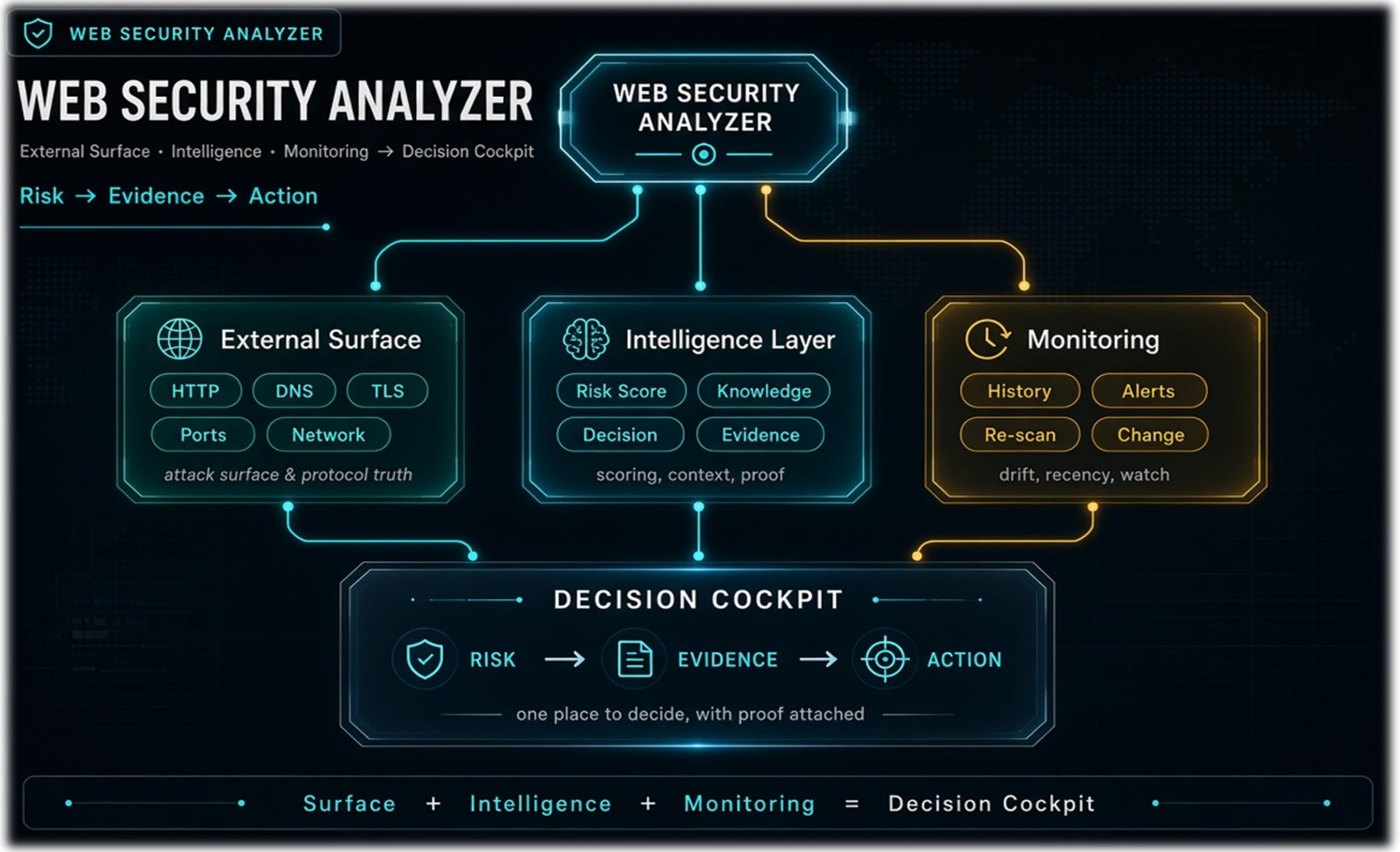
DÉCIDE:

the Cybersecurity Decision System

All the building blocks converge toward the same goal.



From intelligence to action, with a clear priority.


WEB SECURITY ANALYZER
WEB SECURITY ANALYZER
External Surface • Intelligence • Monitoring → Decision Cockpit
Risk → Evidence → Action
WEB SECURITY ANALYZER
External Surface
HTTP
DNS
TLS
Ports
Network
attack surface & protocol truth
Intelligence Layer
Risk Score
Knowledge
Decision
Evidence
scoring, context, proof
Monitoring
History
Alerts
Re-scan
Change
drift, recency, watch
DECISION COCKPIT
RISK
EVIDENCE
ACTION
one place to decide, with proof attached
Surface + Intelligence + Monitoring = Decision Cockpit

The WSA cockpit: technology and decision

A single point of convergence for the entire organization.



CEO
What matters?

CTO
Why does it matter?

ENGINEER
Where is the evidence?

SECURITY TEAM
What needs to be investigated or remeditated?

Everyone sees what they need. **Everyone shares the same truth.**

THE VISION:
a cyber intelligence platform

We started with a domain to analyze.



From a single domain to the Cybersecurity Intelligence platform.

The WSA ecosystem is growing

Around a central engine: the Cybersecurity Decision System.



One core. One ecosystem. One trajectory.

KEY MESSAGE



WSA is not just another vulnerability scanner.

WSA is a Cybersecurity Decision System.

SEE. UNDERSTAND. DECIDE. FIX. VERIFY. MONITOR.

TRANSITION

From facts to understanding

WSA
ESTABLISHES THE FACTS

AI HELPS
UNDERSTAND THEM TOGETHER

« And if WSA knows how to establish the facts, the next step is to use **artificial intelligence** to help us **understand them together.** »

Cyber + AI. The next step of the journey.

AI at the heart of WSA

WSA orchestrates the major LLMs on the market



One business core. Multiple intelligences. One decision.

Artificial intelligence at the service of cybersecurity

- Vulnérabilités
- Configuration
- Events
- Exposure
- Réputation
- Anomalies
- History
- Evidence

From technical facts to cyber intelligence.

The challenge is no longer to collect more.

It is to understand what these facts mean **TOGETHER.**

This is precisely where **AI** brings a new dimension.

WSA establishes the facts.
AI helps understand them.

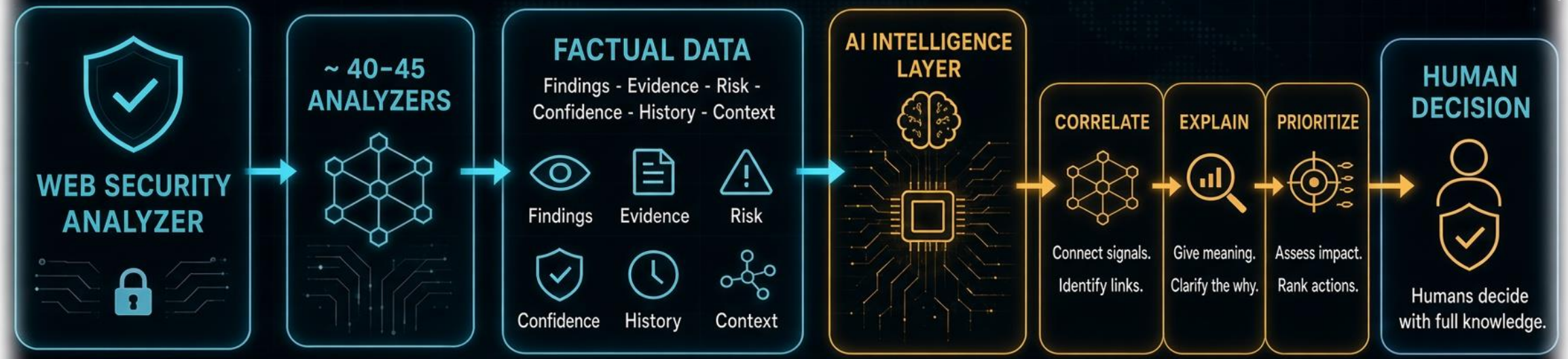
AI does not replace security analyzers.



TECHNICAL OBSERVATION FIRST. INTELLIGENCE NEXT.

The WSA + AI principle

Analyzers establish the facts. AI helps decide.



AI does not invent the facts. It connects them to help humans decide.

From analyzers to human decision

Facts first. Intelligence next. Humans decide.









AI connects the facts. It does not replace them.

A new capability: understanding the whole

Relationships, convergences, contradictions, dependencies.

CEO / BOARD

What are the major risks?

CISO / CTO

Why do they matter?

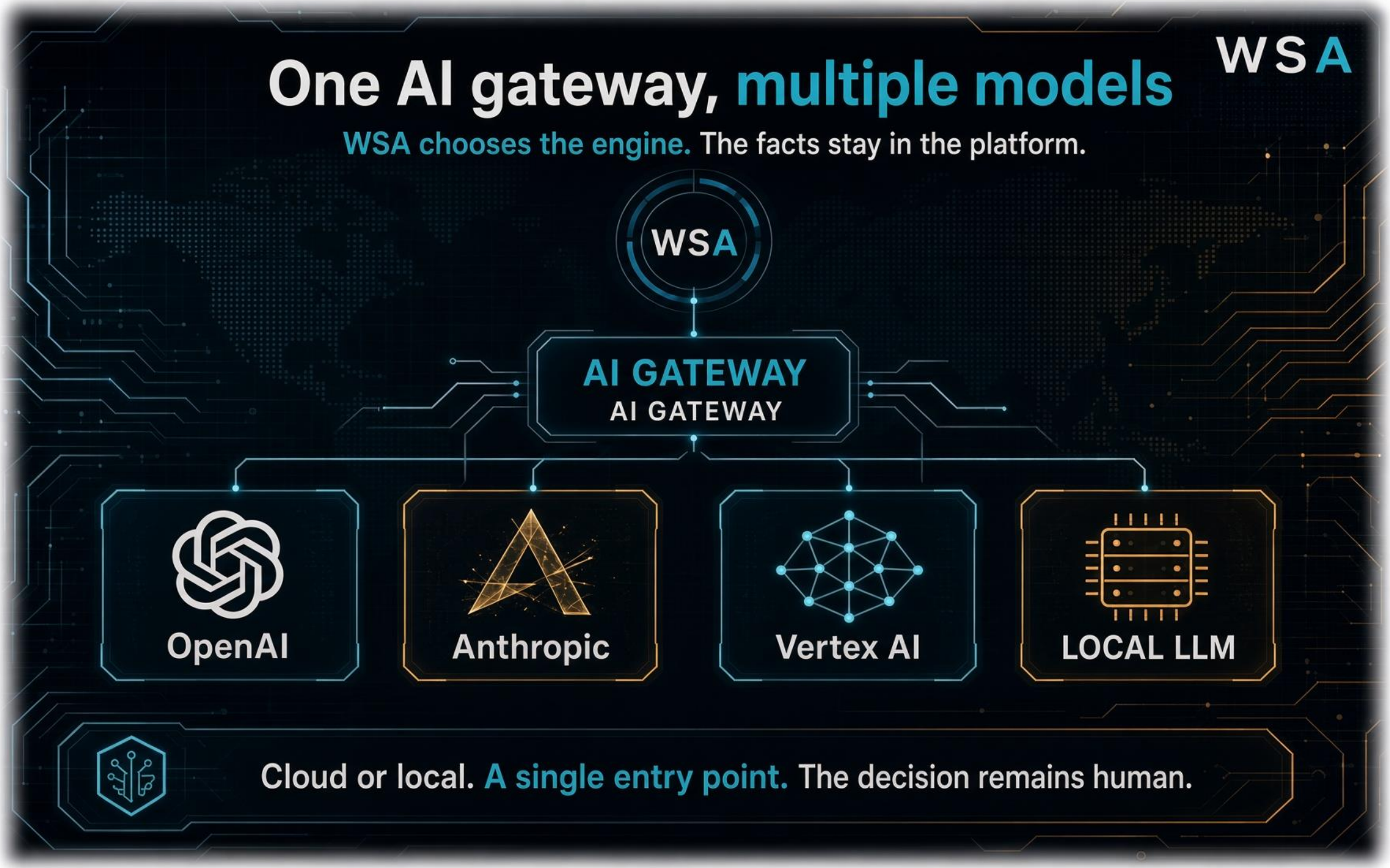
SECURITY ENGINEER

What evidence and what remediations?

SOC / INVESTIGATION

Which signals to investigate further?

One reality. Four perspectives. A clearer decision.


WSA
One AI gateway, multiple models
WSA chooses the engine. The facts stay in the platform.
WSA
AI GATEWAY
AI GATEWAY
OpenAI
Anthropic
Vertex AI
LOCAL LLM
Cloud or local. A single entry point. The decision remains human.

KEY MESSAGE

The fundamental principle

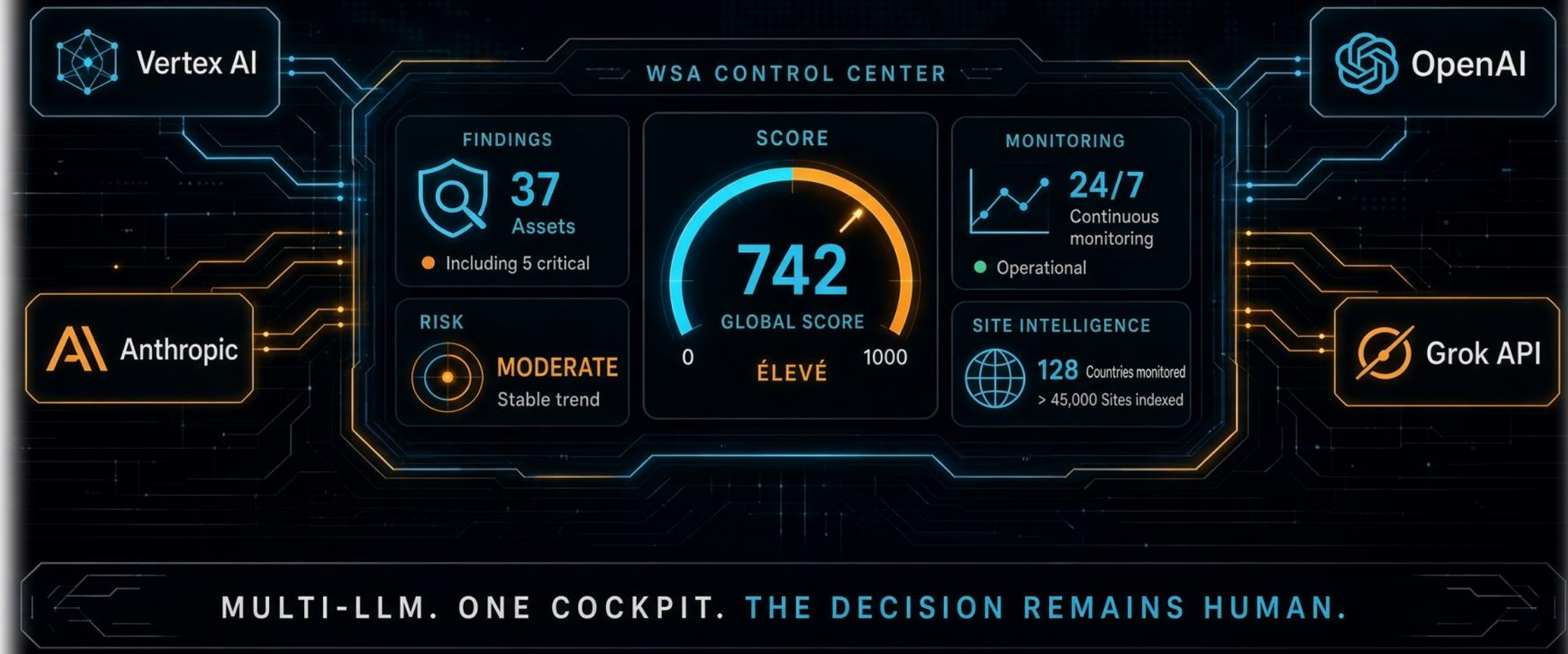
WSA ESTABLISHES THE FACTS.
AI CONNECTS AND EXPLAINS THEM.
HUMANS REMAIN IN CONTROL.

AI must not invent the technical reality.
It reasons from WSA.

Facts first. Intelligence next. Human decision.

The WSA cockpit + LLM intelligence

should be The facts stay in WSA. Models help read them together.



Agenda

AI Assistance Layer · from idea to vision

10 SÉQUENCES

1 FOUNDATIONS
Two complementary intelligences: deterministic + AI

2 CONTEXT
Build a Security Context Package

3 ARCHITECTURE
AI Gateway: never depend on a single LLM

4 ANALYSIS
AI Correlation: look at the whole rather than each finding

5 LANGUAGE
Transform technique into explanation

6 DECISION
AI Security Advisor: explain priorities

7 MEMORY
AI + History: understand the evolution of security

8 RELIABILITY
Master hallucinations: Evidence-First AI

9 GOVERNANCE
Confidentiality, cost and AI governance

10 VISION
WSA + AI = Cybersecurity Intelligence System

Two complementary intelligences

Deterministic + AI. The fundamental architectural principle.

DETERMINISTIC WSA

analyzers →

VERIFIABLE FACTS

IA / LLM

connect · explain · prioritize

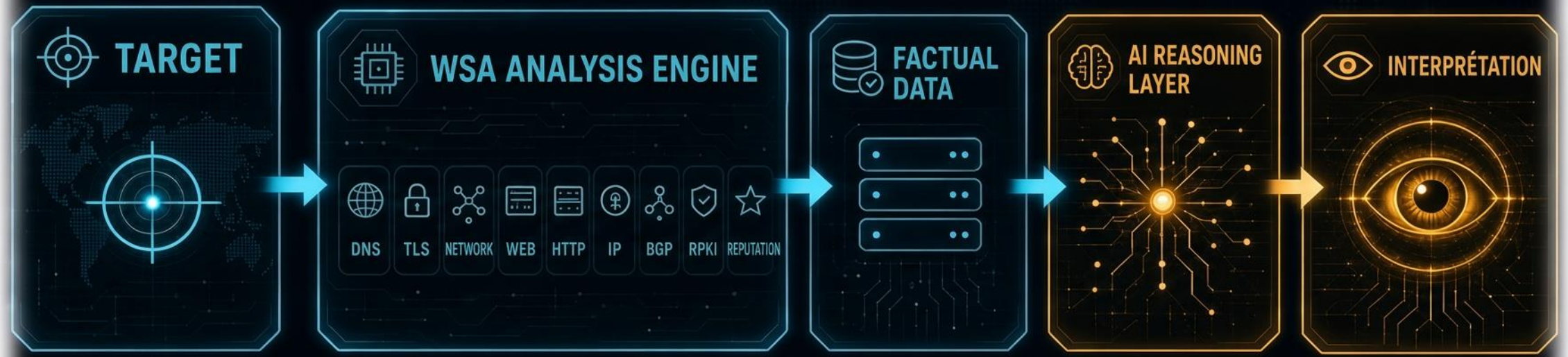
~~"Is this server secure?"~~

WSA does not ask this question to the LLM.

— We start with the facts. —

Measure first. Then understand.

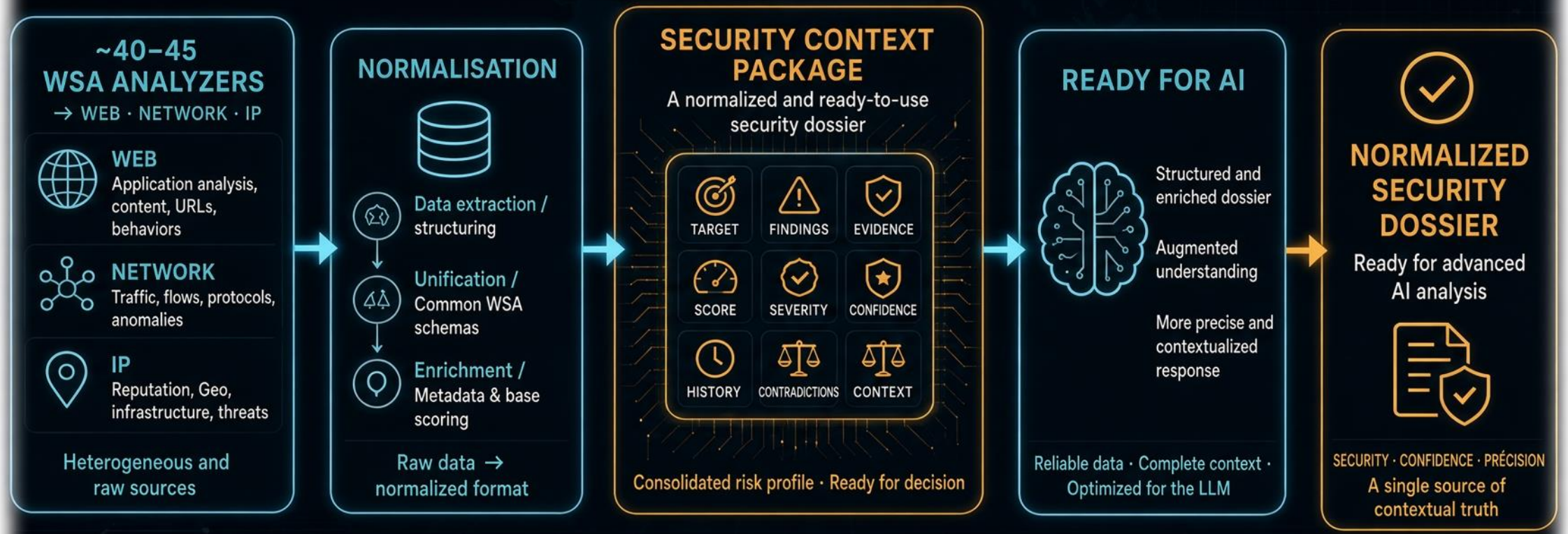
Facts first.
Then the interpretation.



AI does not measure. It reads what WSA has already established.

Build the Security Context Package

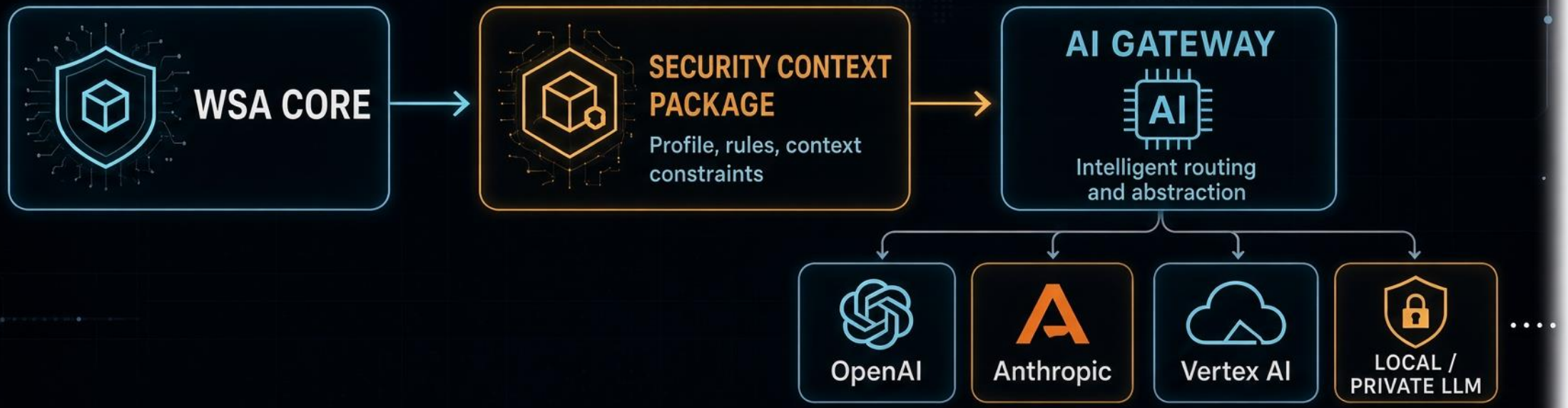
Not 40 raw reports. A normalized security dossier.



The LLM receives a dossier. Not a pile of logs.

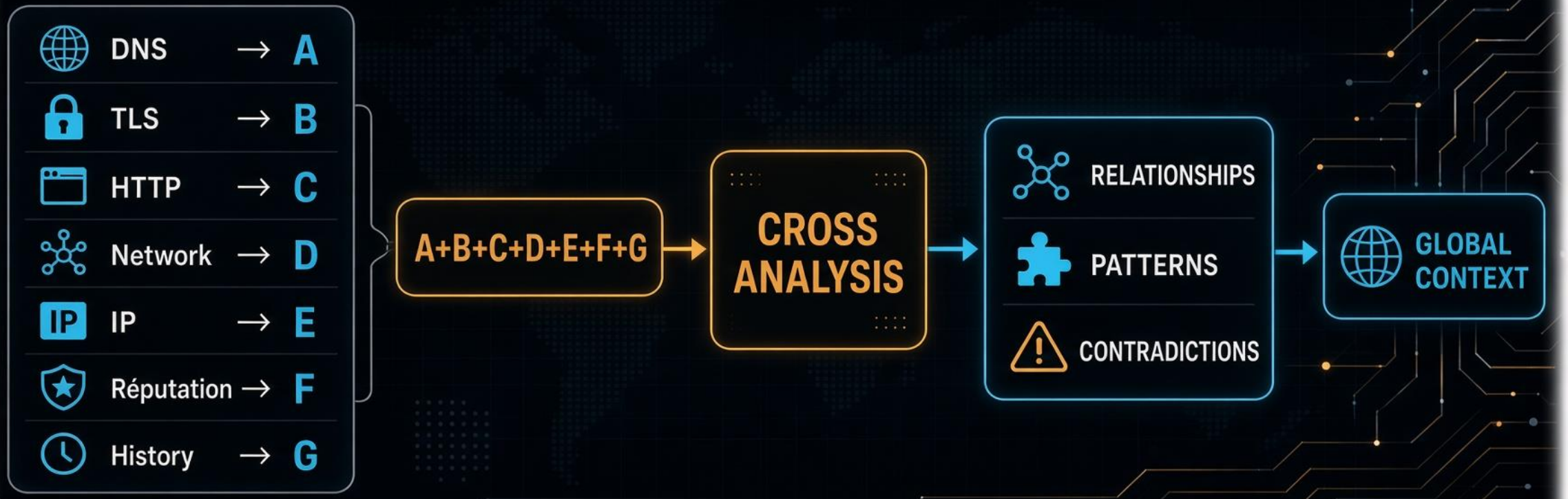
AI Gateway : never depend on a single LLM

WSA is not built around a single vendor.



AI Correlation: looking at the whole

Analyzers each see one finding. AI sees A+B+C+D+E+F+G.



Secondary signals, together, can change everything.

Transform technique into explanation

The same facts. Three readings.





EXECUTIVE VIEW

— What matters?

Business risk | Priorities | Décisions

TECHNICAL VIEW

— Why technically?

Evidence | Configuration | Remediation

SOC VIEW

— What to investigate?

Correlations | Indicators

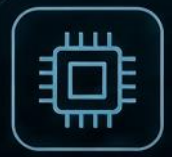
One data. Multiple audiences. One same truth.

One analysis. Multiple languages.



CEO / BOARD

"What are the main risks and why should I care?"



CTO / CISO

"What structural weaknesses explain this situation?"



SECURITY ENGINEER

"What evidence, configurations and remediations should I examine?"



SOC / IR

"What events or correlations require investigation?"

The recipient changes. The facts do not.

AI Security Advisor : explain the priorities

AI does not decide alone. It assists the décision.

180 FINDINGS

Data, vulnerabilities, signals, threats, configurations..

WSA CORRELATION

AI connects the signals. WSA reveals the patterns and impacts.

AI ADVISOR

AI analyzes, contextualizes and proposes.
It does not impose.

PRIORITY

What to handle first and why.

EXPLANATION

Why this risk? What links and factors?

REMÉDIATION

How to fix, reduce or contain.

HUMAN DECISION

The decision-maker evaluates, arbitrates and acts with full knowledge.

Why important? | What links? | What consequences? | What first? | What remediation?

Assist. Not replace.

AI + HISTORY:
UNDERSTAND THE EVOLUTION

Not just today's scan. The trajectory.



INSTEAD OF ONLY
SCAN #125

CONTINUOUS MONITORING GIVES AI A MEMORY.

What history allows us to explain



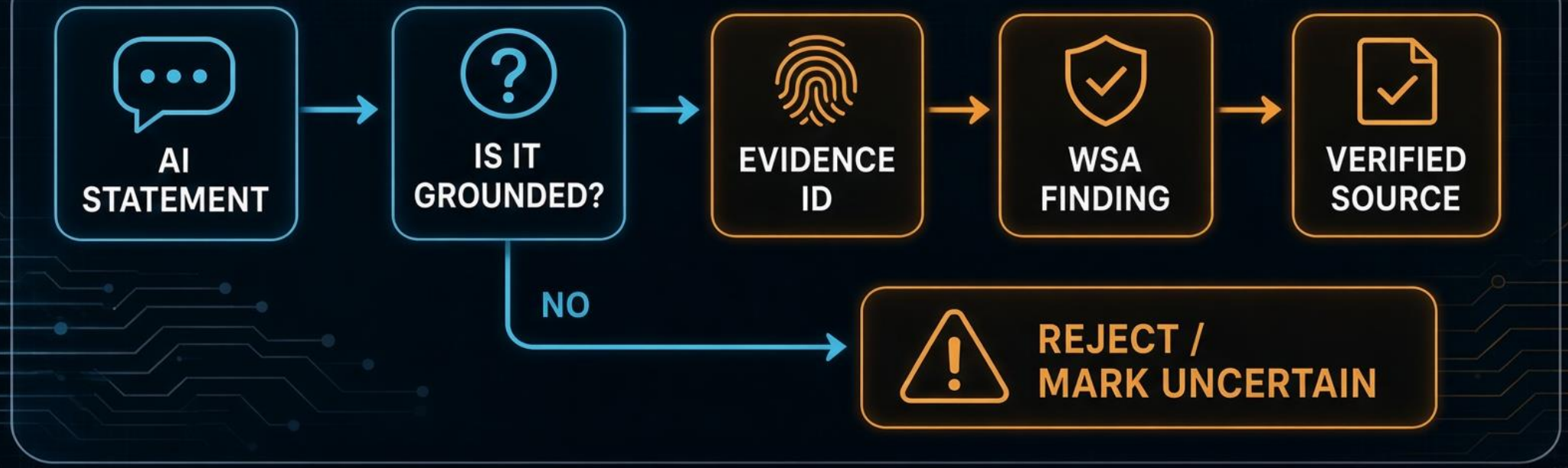
FROM:
"Here is your security status."

TO:
"Here is how your posture evolves and which changes deserve your attention."

Status is a snapshot. Evolution is a decision.

Evidence-First AI

Facts first. AI next.



Every important conclusion must point to evidence.

Fact. Inférence. Unknown.

Never present a hypothesis as a measurement.

FACT

Established by WSA analyzers

INFÉRENCE

Deduced by AI from the facts

UNKNOWN

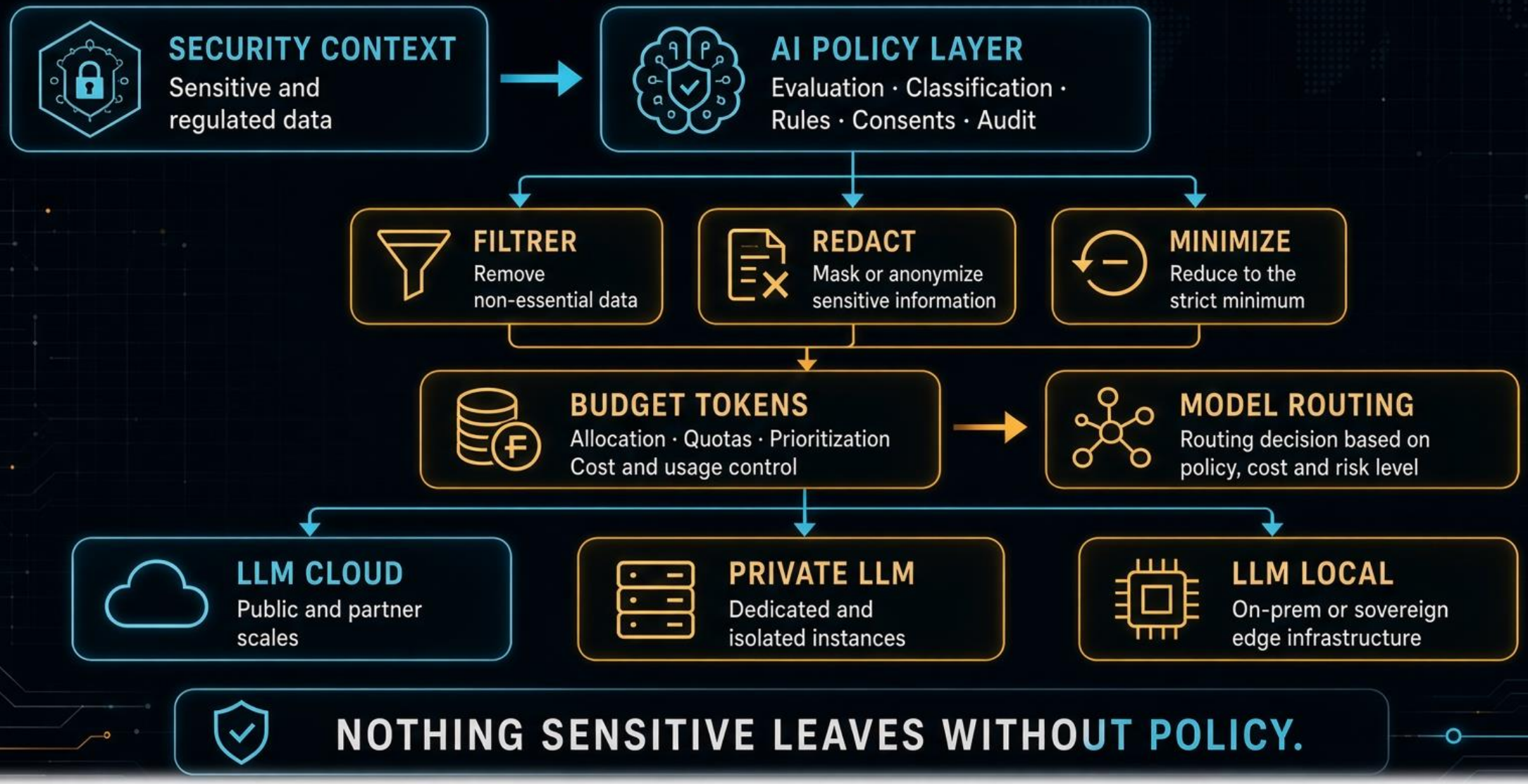
Insufficient information

Finding ID | Analyzer | Evidence | Timestamp | Confidence | Source

WSA must never dress an LLM hypothesis as a technical measurement.

CONFIDENTIALITY, COST AND GOVERNANCE

A true AI Policy Layer.

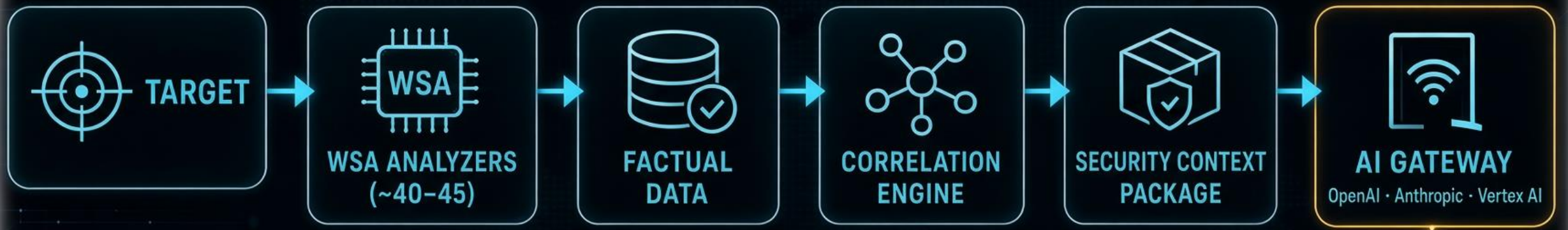


What the policy can decide

- WHICH DATA CAN LEAVE
- WHICH DATA TO ANONYMIZE
- WHICH PROVIDER
- WHICH MODEL
- HOW MUCH CONTEXT
- HOW MUCH IT CAN COST
- EXTERNAL LLM ALLOWED OR FORBIDDEN

Standalone or air-gapped: a local model, zero external sending.

WSA + AI = Cybersecurity Intelligence System



AI INTERPRETATION:
EXPLAIN · CORRELATE · PRIORITIZE

EXECUTIVE SUMMARY · TECHNICAL ANALYSIS
REMEDIATION GUIDE

WSA AI COPILOT → **HUMAN DECISION**

From measured facts to an assisted decision. Humans remain in control.



WSA establishes the facts.



AI connects and explains them.



Humans remain in control.

Analyzers bring the evidence. AI brings the interpretation. Not the reverse.


Multi-LLM


AI Gateway


Advisor


History


Local LLM


Copilot

Deterministic first. Intelligence next. **Human decision.**

Integrating AI into WSA

Agenda · from purpose to operational mastery

6 SÉQUENCES

1 INTENTION
Why add AI to WSA?

2 ARCHITECTURE
How AI integrates into WSA

3 JOURNEY
From technical analysis to the Cybersecurity AI Copilot

4 RELIABILITY
An AI controlled by the facts

5 SUMMARY
Conclusions

6 MASTERY
AI API: architecture, costs & economic control

Why add AI to WSA?

40+ analyzers detect. AI helps see the whole.

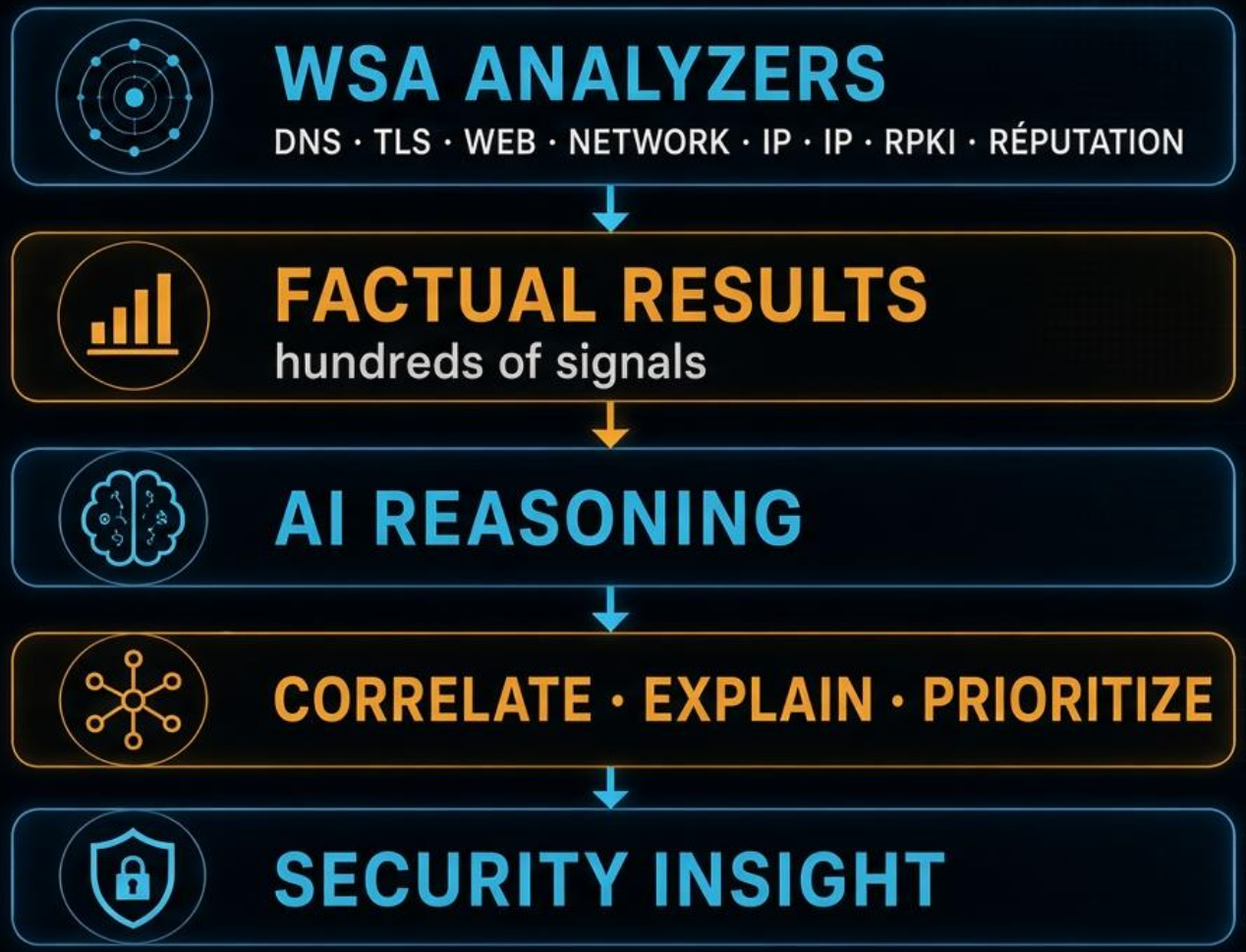


How to simultaneously understand hundreds of results from dozens of analyzers?

Each analyzer brings a part. AI connects everything.

AI brings a new dimension

Not scanning. Connect. Explain. Prioritize.



We do not ask the LLM to scan a server.

WSA produces the facts.
AI analyzes the relationships.



"We do not add AI as a marketing label.
We use it to solve a real problem:
the quantity and complexity of cyber information."

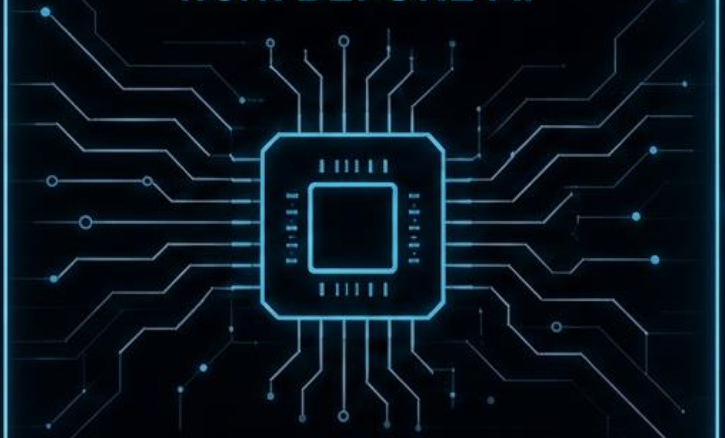
Not an LLM scanner. A reading of the whole.

How AI integrates into WSA

An intelligence layer above the analyzers.

1 ANALYZERS

work BEFORE AI



Detection and collection engines executed first.

2 SECURITY CONTEXT PACKAGE

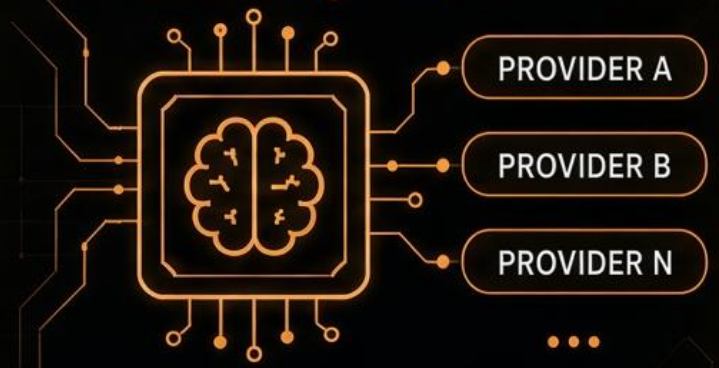
structured results



Normalized, enriched data ready for AI.

3 AI GATEWAY

multiple providers, according to need



Intelligent routing to the best model according to context and policy.

From the target to the three readings



A dossier of facts. Multiple models. Three readings.

Why an AI Gateway?

WSA must not depend on a single provider.

Performance · Cost · Latency · Confidentiality · Client policy · Sovereignty



Consistent with SaaS, Private WSA, On-Premise, standalone.

FROM TECHNICAL ANALYSIS TO THE AI COPILOT

ONE REALITY. MULTIPLE LEVELS OF INTELLIGENCE.

WSA SECURITY DATA

SENSORS · LOGS · TELEMETRY · SIGNALS

AI INTELLIGENCE

LEARNING · CORRELATION · PREDICTION · CONTEXT

CEO / BOARD

— WHAT MATTERS?

RISKS · IMPACT · DECISIONS

CTO / CISO

— WHY?

ARCHITECTURE · PRIORITIES · ÉVOLUTION

SECURITY TEAM

— EVIDENCE?

CAUSE · REMÉDIATION · INVESTIGATION

WSA AI COPILOT

CONTEXT · EXPLANATION · OPTIONS · CONFIDENCE

HUMAN DECISION

JUDGMENT · RESPONSIBILITY · ACTION

THE RECIPIENT CHANGES. THE FACTS DO NOT.

What the AI Copilot can answer

- Three most important risks?
- Why did the score drop?
- Which findings are linked?
- Explain it to a CEO, without jargon.
- Evidence and remediations?



Less navigation. More decision.

An AI controlled by the facts

AI does not erase the technical traceability of WSA.

FACT
Measured by WSA

+

INFÉRENCE
Interpreted by AI

→

EVIDENCE
Justifies the conclusion

→

HUMAN
Retains the decision

WSA TECHNICAL TRACEABILITY: SOURCE → ANALYSIS → INFERENCE → EVIDENCE → DECISION

AUDITABLE • VÉRIFIABLE • NOT ERASED

Hallucinations are managed. The facts remain sourced.

① TODAY

WSA finds and analyzes security issues.



② WITH AI

WSA helps understand the links, why it matters, what to investigate first.



③ VISION

WSA Cybersecurity AI Copilot



WSA establishes the facts.

AI connects and explains them.

Humans decide.

Not a gadget. *An intelligence layer above the analyzers.*

The costs of AI with WSA

Control the price of intelligence, not multiply it



AI is a lever. WSA turns it into a controlled cost.

How WSA uses an AI API

We do not send the scan to ChatGPT. WSA talks to an API.

1 WSA ANALYZERS

factual results first

- Artifacts & IoC
- Behaviors
- Metadata
- Technical context

2 SECURITY CONTEXT PACKAGE

normalized dossier

- Structured data
- Normalized & anonymized
- Relevant & limited
- Traceability & control

3 SELECTED AI API

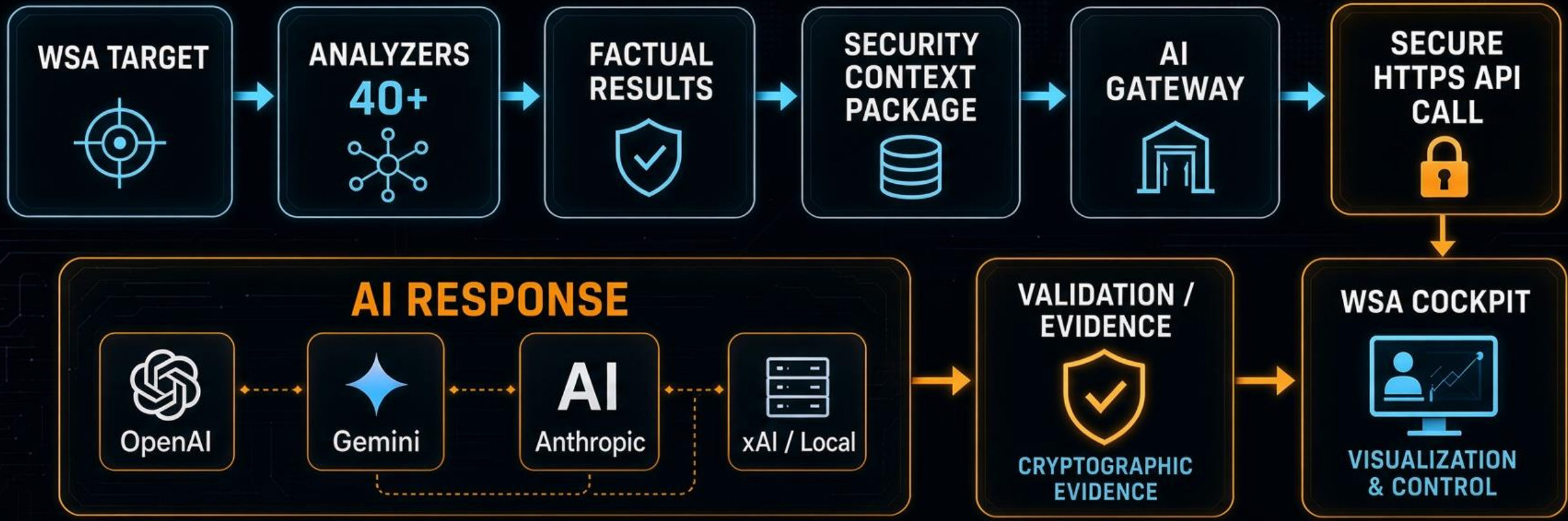
chosen provider

- Model suited to the need
- Clear service contract
- Compliance & security
- Cost control

API

Architecture, costs and economic control. Easy to explain.

SECURE API CALL.
VALIDATED RESPONSE.



NOTHING ENTERS THE COCKPIT WITHOUT VALIDATION.

Concretely, what needs to be put in place?

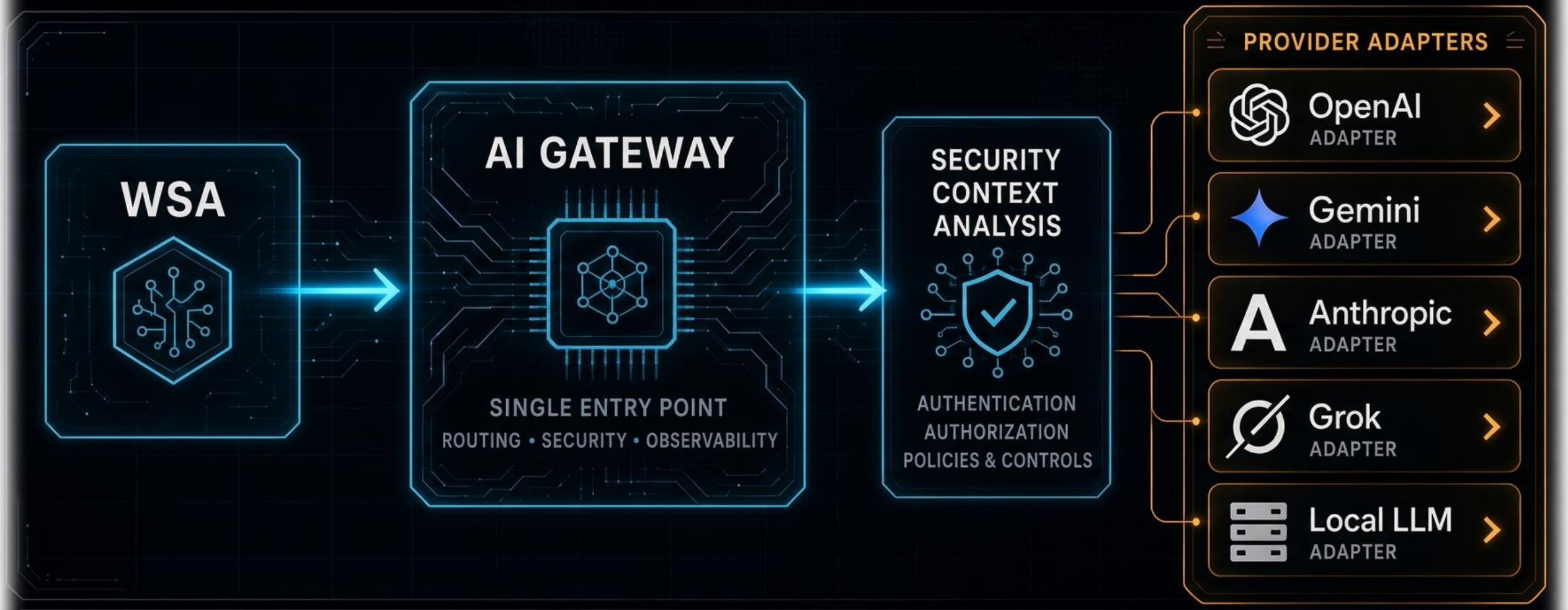
The AI Gateway manages the entire call cycle.



A gateway. Not a patchwork of manual calls.

The architecture remains independent of the provider

WSA does not call five APIs. WSA calls the AI Gateway.



Change LLM without rebuilding WSA.

How is the price calculated?

INPUT TOKENS + OUTPUT TOKENS = COST

INPUT

- Instructions
- Context
- Findings
- Evidence
- Scores
- History
- Question

OUTPUT

- Analysis
- Corrélations
- Explanation
- Priorities
- Recommandations

A token is not a word. It is the billing unit of the model.

The simplified formula

$$\text{COST} = (\text{input tokens} \times \text{input price}) + (\text{output tokens} \times \text{output price})$$

Rates per million tokens.

$$\div \frac{\text{input tokens}}{1\,000\,000} \times \text{input price} + \div \frac{\text{output tokens}}{1\,000\,000} \times \text{output price}$$

Input cache : Reasoning : Tools : Search : Large contexts

The cache reduces the cost of repetitive data.

CONTROL THE COSTS... AND THE DATA

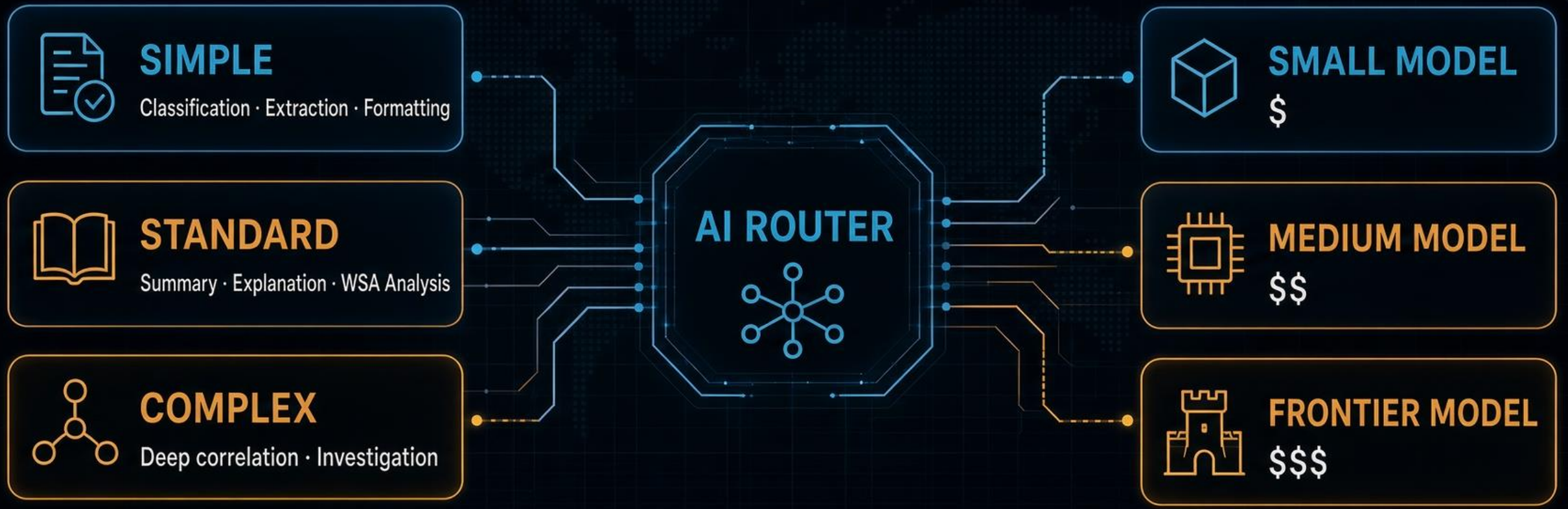
WE DO NOT SEND EVERYTHING, ALL THE TIME, TO THE MOST EXPENSIVE MODEL.



REDUCE FIRST. PAY NEXT. ONLY THE ESSENTIAL.

Second lever: Model Routing

Not all tasks need a frontier model.



The cheapest model capable of doing the job well.

Third lever: Cache + Batch + Budget

Economic governance. Not an unpredictable bill.

CACHE
repetitive context
cheaper

BATCH
group

BUDGET
caps

BUDGET POLICY

Monthly budget	Max / analysis	Max context	Max output	Authorized models	External AI
					YES / NO

A client policy. Not an open meter.

And above all: protect cyber information

Nothing sensitive leaves without policy.

SENSITIVE ELEMENTS

Internal IPs · Configurations · Vulnerabilities · Topology · Server names · Evidence · History



Encryption · API Keys · Permissions · Logging · Rétention · Région · External LLM YES/NO

How much does it really cost?

API rates — order of magnitude September 2026. Input / Output per million tokens.

Gemini 2.5 Flash-Lite	0,10 $ / 0,40 $
GPT-5.4 nano	0,20 $ / 1,25 $
GPT-5.4 mini	0,75 $ / 4,50 $
Claude Sonnet 5	2,00 $ / 10,00 $
Grok 4.6	2,00 $ / 6,00 $
GPT-5.4	2,50 $ / 15,00 $

Orders of magnitude. **Routing chooses the right price tier.**

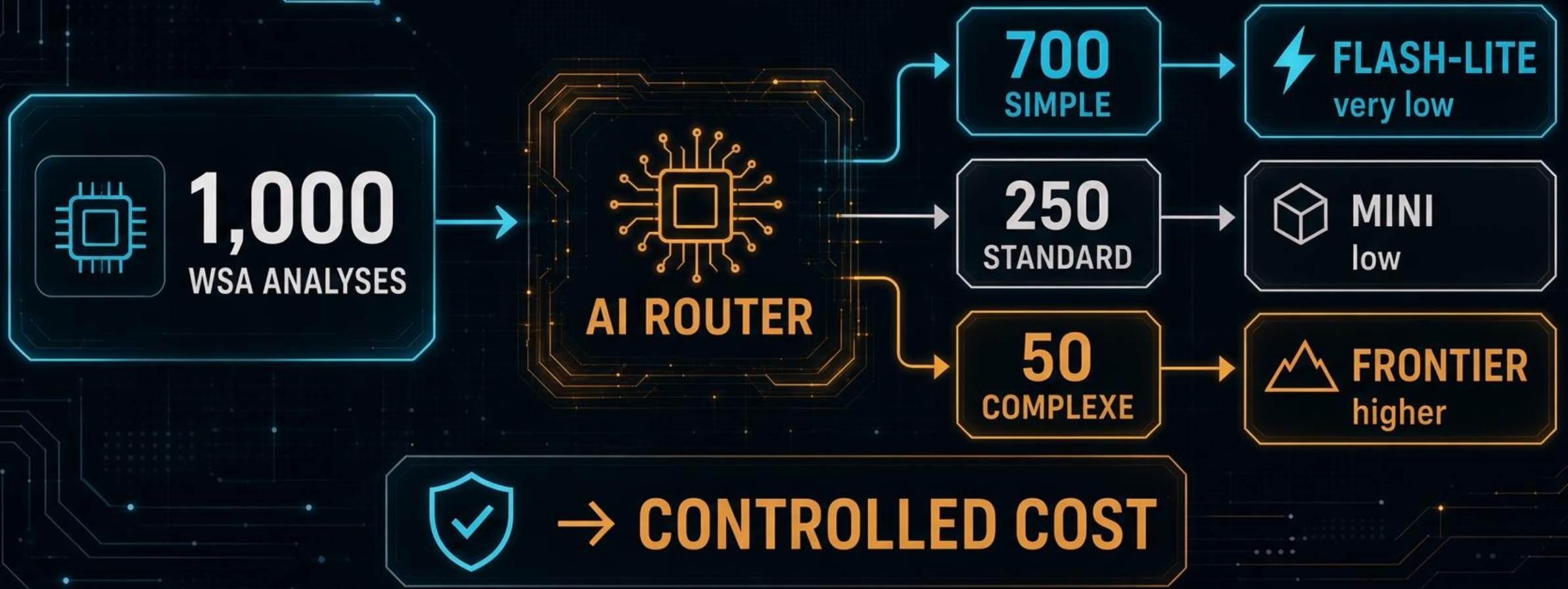
Realistic WSA Simulation

50,000 input tokens + 5,000 output tokens.

1 analyse		1 000 analyses/month
Gemini Flash-Lite	0,007 $	7 $
GPT-5.4 nano	0,016 $	16 $
GPT-5.4 mini	0,060 $	60 $
Grok 4.6	0,130 $	130 $
Claude Sonnet 5	0,150 $	150 $
GPT-5.4	0,200 $	200 $

Text consumption simulation. Not a quote.

WHAT BECOMES VERY INTERESTING FOR WSA
NOT A SINGLE LLM FOR EVERYTHING.



→ CONTROLLED COST

QUALITY • LATENCY • COST. ROUTING ADJUSTS.

AI cost per WSA analysis

HIGH CLIENT VALUE

- Interprétation
- Corrélation
- Executive summary
- Advisor
- Remédiation

≈ 0,01 $ → 0,20 $

in the reference scenario

LOW MARGINAL COST

AI is not the expensive part of WSA.

The value is the cyber intelligence we build around it.

The raw material is already **WSA**. The **API** is only a layer.

AI is not the costly part of WSA.

The value is the AI we build around it.

The client price and the API cost are two different things.



The raw material is already there. The API only adds a layer.


WSA
Web Security Analyzer
Web Security Analyzer
SOC MONITORING
LIVE
THREAT INTELLIGENCE
ACTIVE
TIME
14:32:07 UTC
From technical signal to security decision
INCOMING ANALYZER MODULES
SOURCES · SIGNAUX · TÉLÉMÉTRIE
Domaine
DNS
IP
Ports
Web
TLS
API
Cloud
Réputation
WSA
DECISION CORE
RISK
EVIDENCE
ACTION
DECISION STACK
ANALYSE · ÉVALUATION · RÉPONSE
Corrélation
Multi-signal aggregation
Contexte
Enrichment & profiling
Décision
Risk evaluation
Remédiation
Orchestration & réponse
See the surface. Understand the path. Act.
WSA PLATFORM · SOC OPERATIONS
ENCRYPTED DATA · SECURE CHANNELS

WEB SECURITY ANALYZER

See. Understand. Act.

From the exposed surface to the security decision



RISK → EVIDENCE → ACTION

A business core. A context. A decision.